

<b>Core Module</b>						
<b>M.Sc. Microbiology</b>						
<b>SEMESTER I</b>						
<b>S. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	MSDB5013	Cell Biology	3	0	0	3
2	MSDB5002	Molecular Biology	4	0	0	4
3	MSDB5004	Fundamentals of Biochemistry	4	0	0	4
4	MSMB5003	General Microbiology	4	0	0	4
5	MSDB5007	Bioanalytical and Microbial Techniques	4	0	0	4
6	MSMB5005	Advanced Microbiology Lab - I	0	0	4	2
7	MBSUCT1001	Laboratory Operation Techniques	2	0	0	0
		<b>Total Credits</b>				<b>21</b>
<b>SEMESTER II</b>						
<b>S. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	MSDB5006	Immunology	4	0	0	4
2	MSDB5008	Biotechnology And Genetic Engineering	4	0	0	4
3	MSMB5010	Physiology and Metabolism of Microbes	4	0	0	4

4	MSMB5014	Advanced Virology	3	0	0	3
5	MSMB5012	Advanced Microbiology Lab- II	0	0	4	2
6	MLLUCT1001	Professional Communication	1	0	4	3
7	MBS28T2111	Research Methodology	2	0	0	2
8	MLEUCT1003	Creativity, Innovation and Entrepreneurship & IPR	1	0	0	1
9	M.....	Computational and Graphical Tools	2	0	0	0
		<b>Total Credits</b>				<b>23</b>

**SEMESTER III**

<b>S. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	MSDB6002	Medical and Pharmaceutical Microbiology	4	0	0	4
2	MSMB6004	Algal and Fungal Microbiology	4	0	0	4
3	MSMB6005	Food and Agricultural Microbiology	4	0	0	4
4	MSMB6006	Environmental Microbiology	4	0	0	4
5	(Elective)	Elective	3	0	0	3

6	MSMB6007	Advanced Microbiology Lab- III	0	0	4	2
7	MLLUCT1003	Campus to Corporate	3	0	0	3
8	MSMB6008	Industry training	0	0	2	1
9	M.....	Start up, Innovation, Incubation and Entrepreneurship	2	0	0	0
		<b>Total Credit</b>				<b>25</b>
<b>SEMESTER IV (22-24)</b>						
<b>S. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	MSMB9997	Dissertation	0	0	0	12
		<b>Total Credit</b>				<b>12</b>
<b>SEMESTER-III Electives</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1		Computational Biology	3	0	0	3
2		Bioethics, Bio-safety and IPR	3	0	0	3
3		Toxicology	3	0	0	3
4		Industrial Biochemistry	3	0	0	3
5		Advanced Microbiology	3	0	0	3

6		Recent Trends in Biological Research	3	0	0	3
7		Pharmaceutica l Biotechnology	3	0	0	3
8		Structural Biology and Vaccine Development	3	0	0	3